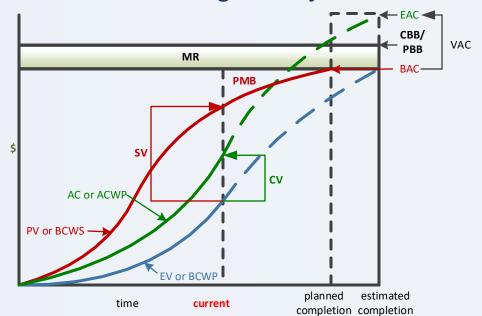
#### **ENERGY.GOV** PB / TPC **COLOR KEY** DOE HELD Contingency CP DOE ODC CONTRACTOR HELD **VARIES** TAB = CBB/PBB +Profit/Fee OTB [If Any] $CBB/PBB = NCC + AUW^{1}$ <sup>1</sup> Note: AUW funding is authorized by an NTE value and added to CP. However, the amount of AUW budget added to the CBB/PBB depends on the estimate for the **PMB** authorized scope. The full amount of the MR scope does not increase the CP until negotiated. CAs **SLPPs** UB

# DOE EVMS GOLD CARD 20190710

# **Earned Value Management System Basics**



# **Performance Baseline Components**

#### (Performance Baseline must clearly document scope and CD-4 date)

AUW = Authorized Unpriced Work (contractually approved, but not yet negotiated)

CA = Control Account (includes AUW) = WPs + PPs

 $\label{eq:CBB} CBB = Contract\ Budget\ Base = PMB + MR; \ valid\ when\ 1\ contract\ to\ 1\ project; \ else\ PBB$ 

CP = Contract Price = CBB + Profit/Fee

MR= Management Reserve is held by contractor (Contingency is held by DOE)

NCC= Contract price less Profit/Fees

ODC= Other Direct Costs

WPs

OTB= Established performance budget that exceeds the value of the negotiated contract

PB= Performance Baseline (TPC) = CP + Contingency + DOE ODC

PBB= Project Budget Base = PMB + MR; valid when 1 contract to multiple projects

PMB= Performance Measurement Baseline = CAs + UB + SLPPs

PP= Planning Package (far-term activities within a CA)

SLPP = Summary Level Planning Package

TAB = Total Allocated Budget CBB + OTB or PMB + MR + OTB

TPC = Total Project Cost

UB = Undistributed Budget (activities not yet distributed to CA)

WP= Work Package (near-term, detail-planned activities within a CA)

### **EVMS Basic Components**

AC = Actual Cost = ACWP = Actual Cost of Work Performed

EV = Earned Value=BCWP = Budgeted Cost for Work Performed

PV =Planned Value= BCWS = Budgeted Cost for Work Scheduled

 $BAC = Budget \ at \ Completion = \sum BCWS = Sum \ of \ Budgeted \ Cost \ for \ Work \ Scheduled$ 

EAC=Estimate at Completion= ACWP + Estimate to Complete (ETC)

## VARIANCES

```
CV = EV - AC = BCWP - ACWP = Cost Variance

SV = EV - PV = BCWP - BCWS = Schedule Variance

CV% = (EV - AC) / EV = (BCWP - ACWP) / BCWP = Cost Variance (%)

SV% = (EV - PV) / PV = (BCWP - BCWS) / BCWS = Schedule Variance (%)

VAC = BAC - EAC = Variance at Completion
```

#### **OVERALL STATUS**

#### PERFORMANCE INDICES (Favorable is >1.0, unfavorable is <1.0)

CPI = EV / AC = BCWP / ACWP = Cost Performance Index
SPI = EV / PV = BCWP / BCWS = Schedule Performance Index
TCPI<sub>EAC</sub> = WR / (EAC - AC<sub>cum</sub>) = EAC-based To Complete Performance Index

#### **ESTIMATE AT COMPLETION FORMULAE**